



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Mining file

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
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August 19, 1987

Mr. Carsten N. Mortensen
General Manager
Utelite Corporation
P.O. Box 387
Coalville, Utah 84017

Carsten
Dear Mr. Mortensen:

Re: Review of Utelite Mining and Reclamation Plan, M/043/004, Summit County, Utah

The Division has reviewed Utelite Corporation's June 30, 1987 Mining and Reclamation Plan for the Utelite Mine. Before we can tentatively approve this plan, we will require the following additions and/or changes:

1. Question 19, Page 3

At this time, the Division only requires a letter from Summit County stating that you have talked with them concerning the landfill proposal and that they are interested in pursuing the matter.

We will require you to finalize these arrangements and to document them within five years time. Upon receipt of adequate documentation, the Division will reduce the reclamation bond accordingly. The Division will require the submittal of a revised reclamation plan if adequate documentation is not received within five years time.

2. Question 20, Page 3

The statement "There is no intent to obtain existing vegetation cover" should be deleted and replaced with "Existing vegetative cover is approximately 30 percent as estimated by Division of Oil, Gas and Mining personnel". Any areas that are not acquired for landfill useage will have to obtain 70 percent of the original ground cover when reclaimed (i.e., approximately 21 percent ground cover).

3. Question 23, Page 4

The following should be added to the second statement pertaining to recontouring of the waste dump: Overburden that is stripped in future mining will be regraded and seeded as soon as mine operations and weather permits. Where practical, topsoil will be selectively removed and placed over the top of the regraded overburden. The maximum slope for the dump area will be 1.5 horizontal/1 vertical.

4. Question 24, Page 5

The statement "Utelite will continue to fill this in until the area is restricted to the natural dimensions to handle the stream flow" should be deleted and replaced with "Utelite will limit the amount of additional material placed into the stream channel. Rip rap and seeding will be used as necessary to control erosion during mine operations."

Upon completion of mining at the site, the fill material will be laid back out of the stream such that the channel configuration approximates the predisturbed condition. Soil material will be placed over the fill material and the area will be seeded. In conjunction with this work, the county access road will be returned to its original position further up slope.

5. Question 25, Page 5

The statement "Any areas showing poor vegetation growth will be reseeded" should be added to the last paragraph.

6. Question 27, Page 6

The Division is in favor of the Utelite Pit eventually being converted to a landfill. It is our policy, however, to bond for the worst case situation. Until such time that we receive a firm commitment from Summit County that they will convert the pit into a landfill, we feel that we must bond for a nonlandfill reclamation scenario. The Division's bond estimate for this case is attached. We will not require posting of this reclamation bond until such time as the rules pertaining to rock aggregate exemptions are finalized. If Utelite is determined to be exempt as a rock aggregate operation, we will not require a permit or bond.

Page 3

Mr. Carsten N. Mortensen

M/043/004

August 19, 1987

7. Page 11 of Form MR-1 (Rule M-10(1), Land Use)

A variance is not required for a post-mining land use of landfill.

If you should disagree with any of the recommended changes or the bond estimate, please contact Frank Filas of my staff or me. We will work with you in any way that we can to resolve these remaining issues.

Sincerely,



Lowell P. Braxton
Administrator
Mineral Resource Development
and Reclamation Program

FJF/clj

Enclosure

cc: F. Filas

F. Jensen

D. Wham

1243R/43-45

P. S. Thank you again for the tour of Utelite's mine operations.

Also, in your response, please incorporate your changes into your MR1, your copy is attached.

LJB

Summary of The Reclamation Bond Estimate
Utelite Mine, M/043/004
(Nonlandfill Scenario)

Item

A.	Demolition and Cleanup	\$25,500
B.	Soil Placement, Grading and Ripping	25,300
C.	Seeding and Fertilizing	<u>7,100</u>
		\$57,900
D.	10 Percent Contingency	<u>5,800</u>
	Total in 1987 Dollars	\$63,700

Inflation Factor of Two Percent Per Year
For Seven Years

Total in 1994 Dollars \$73,200

Reclamation Bond Estimate
Utelite Mine, M/043/004
August 17, 1987

by
Frank Filas

General: This estimate was based on a nonlandfill reclamation scenario. A number of assumptions had to be made in preparing this estimate since the reclamation plan presumes that the mine will eventually be converted to a landfill. These assumptions are detailed in the reclamation estimate. Unit costs for equipment are based on the Blue Book rental rate plus the hourly operating cost. Labor rates are from the Means Site Work Cost Data book and include benefits and subcontractors profit.

A. Demolition and Cleanup

Tear down and remove concrete storage building and shop-office building. This is assuming that this will require two weeks with crew listed below. This is also assuming that equipment and metal bins are salvageable at no additional cost to the operator.

MANPOWER AND EQUIPMENT	\$COST/HR	HRS.	\$COST
1 Outside Foreman	32.85	80	2,628
2 Laborers	23.05 ea	80	3,688
1 Equipment Operator	29.85	80	2,388
2 Truck Drivers	23.80 ea	80	3,808
1 Front End Loader (2.5 CY)	61.00	80	4,880
2 Dump Trucks, 16 Ton	50.60 ea	80	8,096
	Subtotal		\$25,488

B. Soil Placement, Grading, and Ripping

1. Haul soil material from waste area to cover pit floor.

Assume: a. Highwalls are granted a revegetation variance.

- b. One foot of soil is placed over a 1600 foot x 200 foot area (11,850 CY).
- c. Use of a 16 CY Scraper on a 2000 foot haul with unfavorable grade and 50 minutes per hour operating efficiency (83 CY/HR - Cat Handbook).

Result: $11,850 \text{ CY} \div 83 \text{ CY/HR} = 142.7 \text{ HRS}$

- 2. Regrade and rip disturbed area. Break up and bury foundations, and reroute county road away from stream channel.

Assume:	a. <u>Disturbed Area</u>	<u>Acres</u>
	20 percent of Waste Dump	2.0
	Pit Floor	7.3
	Plant Site	7.3
	Product Storage Area	3.5
	Stream Channel Area	4.0
		<u>24.1</u>

- b. Use of a D-8 with ripper at .5 ACRE/HR

Result: $24 \text{ ACRES} \div .5 \text{ ACRE/HR} = 48 \text{ HRS}$

<u>MANPOWER AND EQUIPMENT</u>	<u>\$COST/HR</u>	<u>HRS.</u>	<u>\$COST</u>
1 D-8 W/Ripper	134.07	48	6,435
3 16 CY Scrapers	80.19	48	11,547
4 Equipment Operators	29.85	48	5,731
1 Outside Foreman	32.85	48	1,577
	Subtotal		\$25,290

C. Seeding and Fertilizing

Assume: 1. 24 acres to be seeded and fertilized with farm tractor and drill seeder at .75 acre/hr. Assume that 80 percent of waste area has already been revegetated.

- 2. 20 pounds of seed per acre at \$150/acre and 200 pounds of fertilizer per acre at \$50/acre.

Result: $24 \text{ ACRES} \div .75 \text{ ACRE/HR} = 34 \text{ HRS}$
Seed and Fertilizer = \$200/ACRE

<u>MANPOWER AND EQUIPMENT</u>	<u>\$COST/HR</u>	<u>HRS.</u>	<u>\$COST</u>
Farm Tractor W/Drill Seeder	25.00	32	800
1 Tractor Driver	23.45	32	750
1 Laborer	23.05	32	738
Seed and Fertilizer			<u>4,800</u>
	Subtotal		\$7,088

clj
1243R/47-49